

**Hurricane Harvey-Texas**  
**ESF-10**  
**Situation Report #10**

**Subject:** SITREP #10  
**To:** Agency Leads  
**Thru:** Matthew Loesel. PSC  
**From:** Unified Command  
**Date:** 9/8/2017  
**Reporting Period:** 9/8/2017

**1. Introduction**

**1.1. Background**

Hurricane Harvey made landfall at 2300 ET, August 26<sup>th</sup>, as a Category 4 storm near Rockport, Texas. Harvey stalled over southeastern TX. Due to its slow motion and a prolonged period of onshore flow, the impacted areas received more than 50 inches of precipitation which subsequently led to catastrophic flooding.

An ESF-10 Mission Assignment was signed on August 28, 2017. The US Environmental Protection Agency (EPA), Texas Commission on the Environmental Quality (TCEQ), Texas General Land Office (TGLO) and the US Coast Guard (USCG) have entered into Unified Command to begin the evaluation, clean-up and recovery of spills, releases, vessels and orphan containers.

**2. Current Activities**

**2.1. Operations Section**

On September 8, 2017, Unified Command continued operations in accordance with the Natural Disaster Operational Workgroup (NDOW) Standard Operating Procedures, NDOW forms and Response Manager. The Unified Command is supported by three operational branches: Alpha Branch in Corpus Christi, Bravo Branch in Houston and Charlie Branch in Port Arthur. Hazard Evaluation, Oil Discharge Assessment and Recovery, as well as Orphan Container Evaluation and Recovery teams continued working throughout the Alpha, Bravo and Charlie Branches. Drinking Water (DW) and Waste Water (WW) Assessment teams were active in the Bravo Branch. EPA's mobile air monitoring Trace Atmospheric Gas Analyzer (TAGA) bus conducted air monitoring and continued to monitoring various areas in the Bravo Branch. ASPECT continued to survey Risk Management Program (RMP), Facility Risk Plan (FRP), Drinking water and Waste water facilities in the affected areas.

Liaison officers are coordinating to get logistical information on where Community Liaisons will be located to advise Unified Command (UC) staff. They have coordinated with the Region on mailing flyers to ICP and Charlie branches. Several Local Emergency Planning Committees (LEPCs) have requested EPA Liaison to attend community meetings to provide information on environmental concerns communities may have on returning home. Liaisons officers plan on providing approved flyers for their information and will coordinate with UC's if in-depth information will be needed to be presented by an Operations staff member.

Logistics has stood down on plans to move the Incident Command Post (ICP) to Huntsville, TX. The ICP will remain in Corpus Christi, Texas.

EPA's phone bank personnel in Austin have completed their role of contacting drinking water and waste water facilities by phone. EPA's Austin Branch team was demobilized, Friday September 8, 2017.

**Table 1** represents the up to date assessments of drinking water and waste water systems evaluated by both phone and on-site.

<b>Table 1: Drinking Water and Waste Water Assessments</b>		
	<b>Daily Assessments</b>	<b>Total Assessments</b>
<b>On-Site DW Assessments</b>	53	295
<b>On-Site WW Assessments</b>	26	193
<b>Phone DW Assessments</b>	331	4969
<b>Phone WW Assessments</b>	82	3017

<b>Table 2: Field Teams on 9/8/2017 – per IAP #9</b>				
<b>Teams</b>	<b>Alpha</b>	<b>Bravo</b>	<b>Charlie</b>	<b>Total</b>
<b>Hazard Evaluation</b>	<b>3</b>	<b>24</b>	<b>8</b>	<b>35</b>
<b>Oil Discharge Assessment</b>	<b>1</b>	<b>6</b>	<b>0</b>	<b>7</b>
<b>ER/Orphan Container Recovery</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>4</b>
<b>Oil/Vessel Recovery</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>
<b>Staging Areas</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>2</b>
<b>Air Operations</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>
<b>Air Monitoring</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>Water Infrastructure Assessment – DW</b>	<b>0</b>	<b>10</b>	<b>1</b>	<b>11</b>
<b>Water Infrastructure Assessment – WW</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>5</b>
<b>Totals</b>	<b>12</b>	<b>51</b>	<b>10</b>	<b>73</b>

<b>Table 3: Daily/Cumulative summary of Hazard Evaluations/Recovery</b>				
<b>Status</b>	<b>Opened</b>		<b>Closed</b>	
	<b>9/6/2017</b>	<b>Number of Targets Remaining Open</b>	<b>9/6/2017</b>	<b>Cumulative</b>
Alpha Branch	1	28	9	86
Bravo Branch	41	234	0	27
Charlie Branch	13	48	1	7
NRC Reports	0	3	0	0
<b>Totals</b>	<b>55</b>	<b>313</b>	<b>10</b>	<b>120</b>

Note: Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.

<b>Table 4: Daily/Cumulative Summary of Spills/Discharges</b>				
<b>Status</b>	<b>Opened</b>		<b>Closed</b>	
	<b>9/6/2017</b>	<b>Number of Targets Remaining Open</b>	<b>9/6/2017</b>	<b>Cumulative</b>
Alpha Branch	15	449	24	140
Bravo Branch	4	97	3	36
Charlie Branch	3	23	0	9
NRC Reports	3	99	4	36
<b>Totals</b>	<b>25</b>	<b>668</b>	<b>31</b>	<b>221</b>

Note: Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.

## **Other Notable Activities**

### **ALPHA BRANCH**

On Thursday September 8, 2017, the Alpha Branch continued to review the backlog list of NRC reports compared to Response Manager targets.

Oversite of fuel transfer of Signet Enterprise continued, with a total of 79,000 gallons being transferred to date. The Oil Discharge Assessment Team will be on scene tomorrow to oversee the removal process of all waste oil and to complete a final assessment of oil or hazardous substance products.

The Oil Discharge Recovery Group coordinated and monitored Responsible Party led operations in Island Moorings, Rattle Snake Point, Ingleside, Seadrift, Harbor of Refuge and Holiday Beach. In preparation of the signing of unified command approved vessel removal protocols, the teams within the Oil Discharge Recovery Group prioritized threats to the environment for removal.

Hazard evaluations were conducted on land in the Rockport area. Hazard evaluation teams traveled by boat to the Voestalpine facility in San Patricio County. They assessed the drainage area behind the Voestalpine unload dock. They collected soil/ sediment samples at 3 locations at the site and one location in the Corpus Christi Bay near a storm drain that discharges into the Bay.

A Hazard evaluation team assessed the Copano Bay area for orphan containers. TCEQ are conducting an assessment at St. Joe Island at the request of private land owners.

A complete inventory of all 106 recovered containers was completed on the staging pad in preparation for sampling for field screening.

DATE	CONTAINERS			Cylinders	TOTALS	
	Drums [55gal]	Small Containers [< 55gal]	Large Containers [> 55gal]		Total Items Collected Today	Total Items Collected Project to Date
9/1/2017	26	21	1	1	49	49
9/2/2017	6	10	1		17	66
9/3/2017	7			3	10	76
9/4/2017	10		3	1	14	90
9/5/2017				4	4	94
9/6/2017	3		1		4	98
9/7/2017	1		1	3	5	103
9/8/2017	4		1	5	10	113
<b>Totals</b>	<b>57</b>	<b>31</b>	<b>8</b>	<b>17</b>		

## **BRAVO BRANCH**

The Air Recon Team conducted an aerial over flight of Bastrop, Lee, and Fayette Counties with nothing significant to report. They continued on to assess the Brazos River in Fort Bend County with nothing significant to report and Galveston Island, identifying 3 sunken sailing vessels with no evidence of a discharge.

The Bravo Air Recon Team conducted an aerial overflight to assess the oil slick that was reported at 29.8601 N -094.7626 W, identifying a target. It was assessed as a small sheen slick

and not believed to be ongoing. The target has not been closed until further assessment can be conducted. The area is currently inaccessible except by boat or through air.

Multiple Hazard Evaluation (HE) Teams conducted and completed assessments in Brazoria, Matagorda, Harris, and Galveston Counties. No emergent or substantial risks posed from identified targets.

HE Assessment Status: 100% complete in Liberty, Austin, Waller, Chambers, Montgomery, Fort Bend, Galveston, Bastrop, Lee, Fayette, Colorado, and Walker Counties. 90% complete in Brazoria County. 80% complete in Wharton County. 60% complete in Harris. 30 % complete in Matagorda County.

During the day's assessment, it was observed that the Matagorda and Brazos rivers have finally crested.

ASPECT conducted two flights. The first consisted of a specialized target deck over the Beaumont area. The second consisted of the State's Special target list. Results will be reported when available.

## **CHARLIE BRANCH**

During this operational period, Charlie Branch's teams conducted assessments in Pleasure Island, China, Nome, Beaumont, Neches River, Sour Lake, Sabine River, and Taylor Bayou. No emergent or substantial risks posed from identified targets.

The Discharge Assessment Team reported 125 gallons of diesel was discharged at the Beaumont Federal Prison. Specifically, the oil discharged occurred at the maintenance facility outside of the Beaumont prison. The source of spill was a diesel oil tank connected to the maintenance facility's generator. The source was secured and the 125 gallons of diesel was removed from the environment by an Oil Spill Removal Organization.

Another team reported a natural gas leak in Vidor, TX. The responsible party was identified to be PRO Gas. With EPA oversight, PRO Gas sent a technician to vent and secure the release. No further release or threat to the environment present.

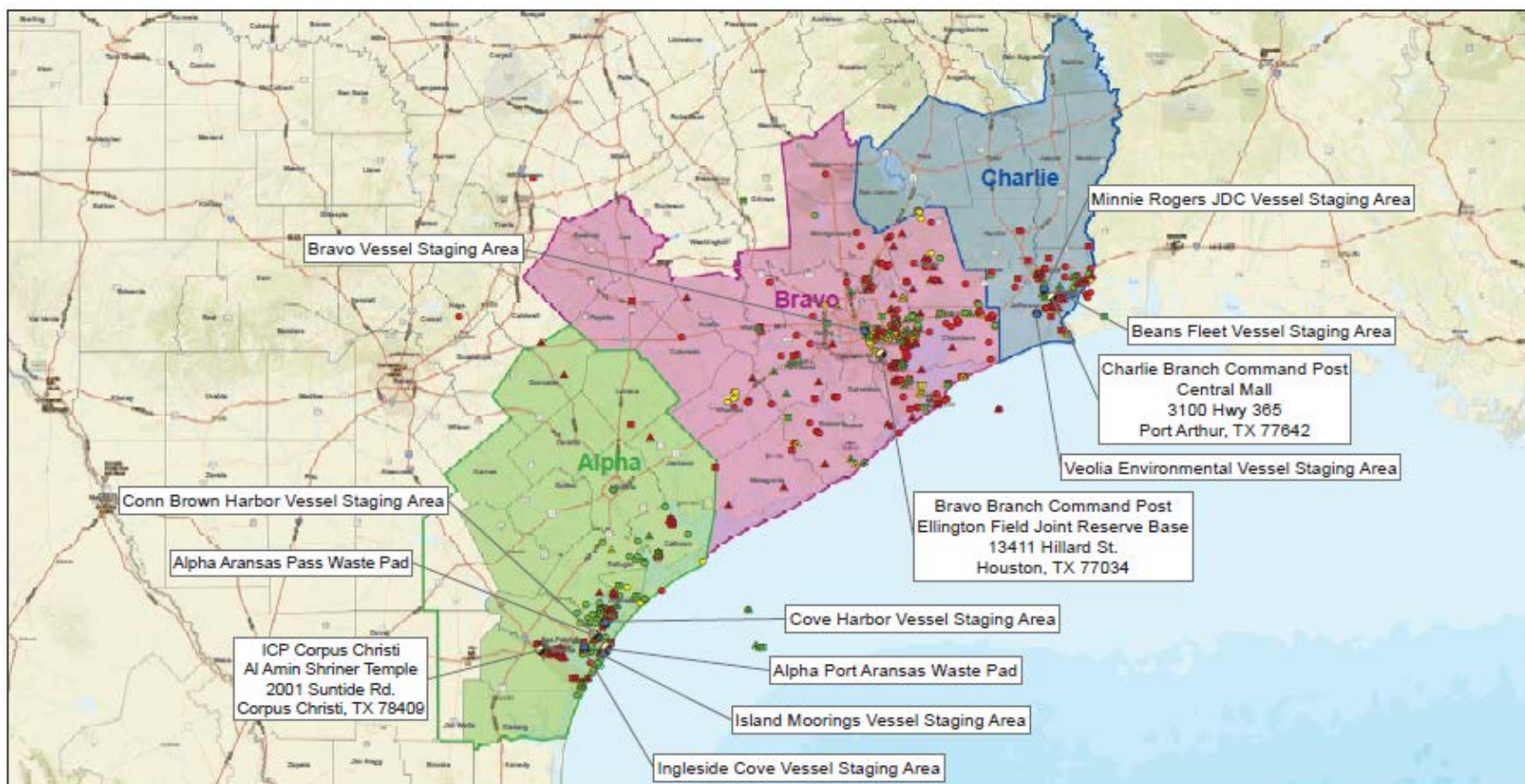
Charlie Branch's Camp RVs are set up and operational.

## **Participating Agencies**

- **Texas Commission on Environmental Quality**
- **Texas General Land Office**
- **Texas Parks and Wildlife**
- **6<sup>th</sup> Civil Support Team**
- **US Environmental Protection Agency**
- **US Coast Guard**
- **National Oceanic and Atmospheric Agency**

### 3. Personnel on Site

<b>Agency</b>	<b>ICP</b>	<b>Alpha Branch</b>	<b>Bravo Branch</b>	<b>Charlie Branch</b>	<b>Totals</b>
<b>US EPA</b>	10	3	36	3	<b>52</b>
<b>USCG</b>	20	17	31	30	<b>98</b>
<b>TCEQ</b>	3	5	30	12	<b>50</b>
<b>TGLO</b>	5	3	0	1	<b>9</b>
<b>TXSG</b>	0	0	22	0	<b>22</b>
<b>CST</b>	0	0	0	0	<b>0</b>
<b>NOAA</b>	1	0	1	0	<b>2</b>
<b>Contractors</b>	7	4	12	4	<b>27</b>
<b>Totals</b>	<b>46</b>	<b>32</b>	<b>132</b>	<b>50</b>	<b>260</b>



<b>Legend</b> Federally Declared Counties: <span style="color: green;">■</span> in Alpha <span style="color: pink;">■</span> in Bravo <span style="color: blue;">■</span> in Charlie <span style="color: yellow;">●</span> Incident Command Post (ICP) / Staging Area <span style="color: blue;">●</span> Vessel Staging Location		<b>USA EPA REGION 6 SITREP Map Alpha, Bravo, Charlie</b>  Hurricane Harvey Response September 8, 2017	 0 25 50 Miles For Official Use Only	 EPA GIS Printed: 6:40:52 PM 9/8/2017	
<b>Facility/Spill Assessment</b> <span style="color: red;">■</span> Open <span style="color: yellow;">■</span> Open - Cleanup in Progress <span style="color: green;">■</span> Closed	<b>Haz/Eval Items</b> <span style="color: red;">●</span> Open <span style="color: yellow;">●</span> Open <span style="color: green;">●</span> Closed				<b>Vessels</b> <span style="color: red;">▲</span> Open <span style="color: yellow;">▲</span> Open - Cleanup in Progress <span style="color: green;">▲</span> Closed
Access Denied/ Leave in Place/ Refer to Other Agency					